

Sadra Heydari

Ph.D. student in Economics @ Adam Smith Business School (University of Glasgow)

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Education

Ph.D. in Economics 📅 Oct 2025 – Aug 2028 (expected)

🏛️ University of Glasgow — Adam Smith Business School

Research title: *Strategic Interaction in Industry Dynamics*

MRes in Economics (with Distinction) 📅 Sep 2023 – Dec 2025

🏛️ University of Glasgow — Adam Smith Business School

GPA: 19.9/22

Dissertation Title: *Endogenous R&D Network Formation with Heterogeneous Firms.*

B.Sc. in Computer Engineering (Minor in Economics) 📅 Sep 2018 – Jun 2023

🏛️ Sharif University of Technology — Department of Computer Engineering

GPA: 17.02/20.0

Additional Certificates:

(2024) **Summer School on Social Choice & Fair Division, Tehran Economic Policy Think Tank** [\[Certificate\]](#)

Research Interests

- Industry Dynamics
- Endogenous Growth
- Innovation and R&D
- Industrial Organization
- Endogenous Entry/Exit
- Het. Firms models

Publication(s)

Absolute Intragenerational Income Mobility in Iran (2023) 🔗 [\[Link\]](#)
Amanzadeh, N. and Heydari, M.S., The Quarterly Review of Economics and Finance. 90: 38-50.

Working Papers

R&D Networks under Heterogeneous Firm Productivities 🔗 [\[Draft\]](#)
Heydari, M.S., Kaniz, Z., and Montoya-Blandón, S.

Honors and Awards

2023	Economics Scholarship (2+3)	Adam Smith Business School; University of Glasgow	Glasgow, UK
2021	Best Paper	4th Iran Economic Forum; Tehran Institute for Advanced Studies (TeIAS)	Tehran, Iran
2018	Silver Medal	12th International Olympiad on Astronomy and Astrophysics (IOAA)	Beijing, China
2017	Gold Medal	13th National Astronomy and Astrophysics Olympiad	Tehran, Iran

Selected Courses

🏛️ Adam Smith Business School (University of Glasgow)*

Macroeconomics	(20/22)	Macroeconomics of Inequality	(19/22)	Industrial Organization	(21/22)
Mathematical Methods	(20/22)	Bayesian Data Analysis	(22/22)	Computational Macro	(20/22)

🏛️ Sharif University of Technology

<u>Economics Courses</u>		<u>Mathematical Courses</u>		<u>Data-oriented Courses</u>	
Intro to Macroeconomics	(19.9/20)	Differential Equations	(17.8/20)	Advanced Programming	(19.3/20)
Game Theory*	(20.0/20)	Numerical Computation	(17.4/20)	Machine Learning*	(16.5/20)
Industrial Organization	(17.3/20)	Discrete Structures	(17.5/20)	Computer Simulation	(19.7/20)

🏛️ Audited and Online Courses

Using Big Data to Solve Social and Economic Problems (*Harvard*), Natural Language Processing with Deep Learning (*Stanford*), Macroeconomics I*, II* (*Sharif*), Microeconomics I* (*Sharif*)

*: Graduate (Ph.D.) level Course

Skills


Programming Language: Python (*advanced*), Java (*advanced*), C / C++, SQL.

Statistical Programming Languages: R (*advanced*), Julia (*modest*), Stata, MatLab & Octave.

Tools and Software: MS Excel, L^AT_EX, Jupyter NB / G Colab, Git / GitHub, Dynare, ArcGIS, Gephi, Vensim.

Language: Farsi/Persian (*native*), English (*fluent* - IELTS: 8.0).

Teaching Experience

Graduate Teaching Assistant  Adam Smith Business School — University of Glasgow

- *Econometrics 1*: Fall 2025

Teaching Assistant  Sharif University of Technology

- *Probability & Statistics*: Fall 2020, Spring 2021
- *Data Structure & Algorithm*: Spring 2021
- *Introduction to Macroeconomics*: Spring 2021
- *Game Theory*: Fall 2021^{*}, Spring 2021

^{*}: Graduate-level Course

Work Experience

Junior Data Scientist | *Metodata*

Jan 2022 - Sep 2022

Collaborated under the supervision of Dr. [Meysam Alizadeh](#).

- Household financial transaction analysis & anomaly detection ([Central Bank of Iran](#))
- Public opinion & brand analytics using social media
- Hotel demand prediction for private booking company

Data Engineer Intern | *Institute for Research in Fundamental Sciences (IPM)*

Jun 2020 - Sep 2020

Contributed to the R&D team of Iran's National Observatory (INO) project.

- Weather station data pipeline & analysis
- Night-sky cloud detection

References


Dr. Richard Dennis

 [webpage](#)

✉ richard.dennis@glasgow.ac.uk

Professor in Economics at Adam Smith Business School,
University of Glasgow

Dr. Zafer Kanik

 [webpage](#)

✉ zafer.kanik@glasgow.ac.uk

Assistant Professor in Economics at Adam Smith Business
School, University of Glasgow

Dr. Naser Amanzadeh

 [webpage](#)

✉ amanzadeh@berkeley.edu

Assistant Professor in Economics at Graduate School of
Management and Economics, Sharif University of
Technology

Dr. Santiago Montoya-Blandón

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Assistant Professor in Econometrics at Adam Smith
Business School, University of Glasgow